MODEL-BASED REGISTRATION OF CARDIAC CTA AND MR ACQUISITIONS

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A method for registration of magnetic resonance (MR) and computed topography (CT) images, in accordance with the present invention includes providing MR images having a region of interest delineated by first contours (blocks 100 and 104) and providing CT images having the region of interest delineated by second contours (blocks 102 and 104). A pre-existing model of the region of interest is also provided (block 106). The pre-existing model is fit to the first contours or the second contours to provide a first resultant model (block 107). The first resultant model is then copied to provide a copied model (block 108). The copied model is fit to the other of the first contours and the second contours to provide a second resultant model (block 108). By rotating and translating the first resultant model and the second resultant model, the first resultant model and the second resultant model are registered (block 110). The rotation and translation information are stored and applied to the images to provide registration between the MR images and the CT images (block 112).